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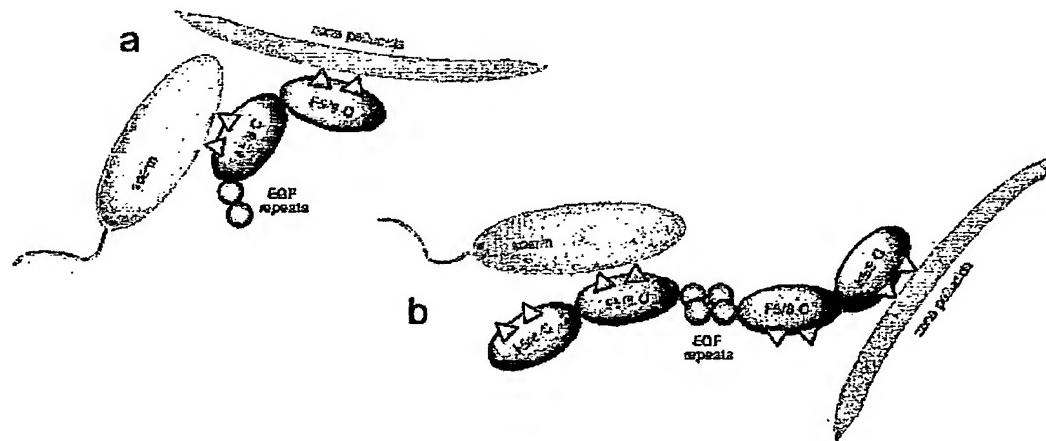
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[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR MODULATING GAMETE ADHESION



C	SEQ ID NO. 1	SEQ ID NO. 2	SEQ ID NO. 3	SEQ ID NO. 4	SEQ ID NO. 5	SEQ ID NO. 6	SEQ ID NO. 7
SED1-EGF-1	- - S Q D I P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
SED1-EGF-2	- - S R Q D I P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
Delta EGF-3	- - D I D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
Delta EGF-4	- - D I D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
Delta EGF-5	- - D I D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
Delta EGF-6	- - D I D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
Delta EGF-7	- - D I D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
consensus	R P C S D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						
	R P C S D P I Q R S - G L G D Q H C D T Q D Q D - - - - I V I C L P K Q P T Q S I V C D						

(57) Abstract: Methods and compositions for modulating mammalian gamete adhesion are provided. Representative modulators of gamete adhesion include, but are not limited to polypeptides comprising at least one discoidin/C domain, and optionally at least one EGF domain. A representative polypeptide includes, but is not limited to SED1 polypeptides (SEQ ID NO. 2-7), prodrugs, fragments, or derivatives thereof. Methods for identifying modulators of SED1-mediated gamete adhesion are also provided.

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